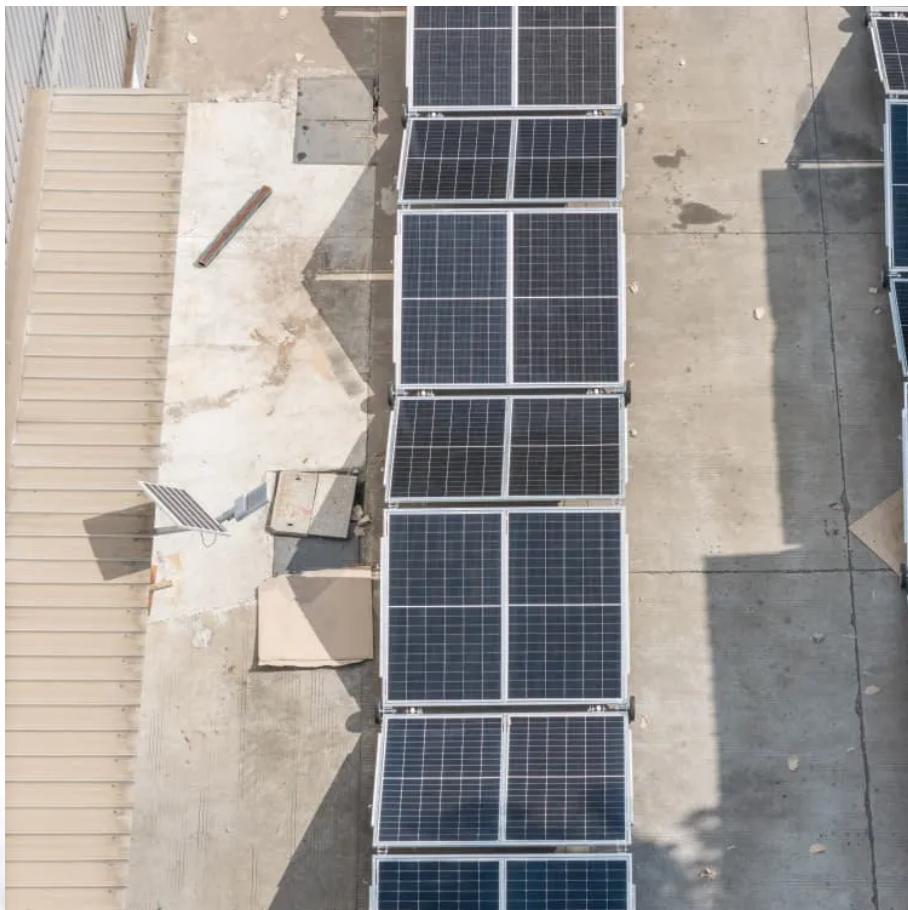




MODERNIZATION SOLAR

# **German Base Station solar Group Communication 5G Base Station**





## Overview

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Can a non-terrestrial network deliver 5G connectivity from space to consumer hardware?

Delivering 5G connectivity from space to consumer hardware via Non-Terrestrial Networks serves a variety of safety and convenience use-cases for consumers. This transformation of the cellular network incurs major technical changes, with space-based base stations posing the main disruption.

Can 5G be deployed on board satellites in space?

Conclusion In this paper we motivated the development of 5G base stations for the deployment on board satellites in space. We presented a system design that realizes a complete gNodeB (distributed and central unit) on a heterogeneous processing system utilizing the VERSAL, a separate multi-core CPU, and a specialized RF front-end chip.

Are 5G physical layer IPs integrated into analog device's reference design?

The 5G physical layer IPs are integrated into Analog Device's reference design. 4. Conclusion In this paper we motivated the development of 5G base stations for the deployment on board satellites in space.

How 5G processing is distributed?

2.1. It can be seen that 5G related processing (green shaded boxes) is distributed between VERSAL and multi-core CPU, with the physical layer (both high and low part) being accelerated on the FPGA, while all upper 5G layers are outsourced to the multi-core CPU.



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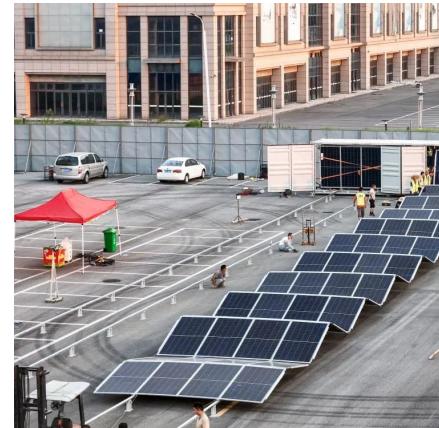


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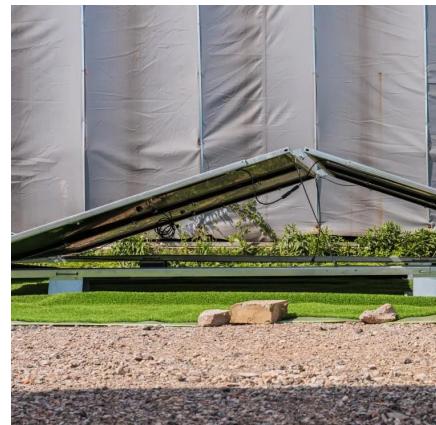
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